ABSTRACT

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A high-speed switching system and method are presented, wherein an n-to-1 switch is configured to receive n data inputs, choose a single data output from the received n data inputs, and output the chosen data output. In a preferred embodiment, the system is configured as a modular system having multiple 2-to-1 switches that are cascaded together in binary-tree fashion, thereby allowing for a simpler implementation over a wide range of n. The system and method also provide an approach for providing a data valid signal, which indicates whether or not the chosen data output is expected.